



January 21, 2005  
Project A08-21

Mr. Corey M. Walsh  
Regional Water Quality Control Board  
Central Coast Region  
895 Aerovista Place, Suite 101  
San Luis Obispo, CA 93401-7906

**Re: Results of the December, 2004 Quarterly Groundwater Monitoring and Request for Site Closure, Chalk Mountain Liquor, Atascadero, California**

Dear Mr. Walsh:

HerSchy Environmental is pleased to present this report summarizing the results of the December, 2004 quarterly monitoring results. The site is located at 9990 El Camino Real, in Atascadero, San Luis Obispo County, California (Figure 1). Five two-inch groundwater monitoring wells were sampled on December 21, 2004. Three underground storage tanks (USTs) were removed from the site on May 7, 2004. Three new USTs were installed at a later date after approximately 40,000 gallons of groundwater were purged during excavation dewatering. Details of soil and groundwater sampling during tank removal activities are included in the June 16, 2004, *"Results of Sampling and Analysis for Underground Storage Tank (UST) Removal, Chalk Mountain Liquor, Atascadero, California"* report prepared by HerSchy Environmental, Inc.

## **METHODS OF INVESTIGATION**

### Groundwater Sampling Procedures

Groundwater samples were collected from each of the site monitoring wells (MW-1 through MW-5) on December 21, 2004. Before collecting groundwater samples, the monitoring wells were measured for static water level using an electric sounder. Depth to groundwater was recorded to the nearest 0.01 feet on the field sampling data sheets. Groundwater elevation in the monitoring wells was calculated by subtracting the measured depth to groundwater from the surveyed well elevation.

Approximately three casing volumes were purged from each well prior to sampling. Depth to groundwater, total depth of the well and well diameter were used to calculate the purge volume. All monitoring wells were purged and sampled using a Waterra electric pump with dedicated hoses. Physical characteristics (temperature, electrical conductivity, and pH), were measured and recorded in the field during the initial stages of purging and prior to sampling. Samples were collected from each well and placed in three 40-milliliter bottles fitted with Teflon-lined septa. Bottles were filled to form a positive meniscus and checked after capping to ensure that no air bubbles were in the sampling containers.

Immediately after sample collection, the groundwater samples were sealed in a plastic bag and placed in an insulated chest with frozen gel packs ("blue ice"). Samples were maintained at or below four degrees Celsius until delivered to the laboratory. Samples were stored, transported and delivered under chain-of-custody documentation. Groundwater field sampling data sheets and chain-of-custody documentation are presented in Appendix A.



## Laboratory Analysis

Groundwater samples were analyzed for gasoline-range total petroleum hydrocarbons (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE). Samples were analyzed using EPA method 8260 for BTEX and MTBE. Groundwater samples were also analyzed for the fuel oxygenates and additives MTBE, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butanol (TBA), 1,2-dichloroethane (1,2-DCA) and ethylene dibromide (EDB) using EPA method 8260.

## **RESULTS OF INVESTIGATION**

### Hydrogeologic Conditions

For the December, 2004 sampling event, depth to groundwater averaged 2.49 feet or 949.17 feet above mean sea level based on monitoring wells MW-1 through MW-5. The elevation of groundwater beneath the site increased 0.42 feet between the September, 2004 and December, 2004 monitoring events based on depth to groundwater. Groundwater flow direction was south 85 degrees east with a gradient of 0.0093. Groundwater conditions are presented graphically on Figure 2 and summarized in Table 1 below:

**Table 1**  
**Groundwater Conditions, Chalk Mountain Liquor, Atascadero, California**

| Well Number                               | Casing Elevation | Depth to GW | GW Elevation |
|---|------------------|-------------|--------------|
| <b>December 18, 2003</b>                  |                  |             |              |
| MW-1                                      | 992.00           | 2.15        | 989.85       |
| MW-2                                      | 993.58           | 2.65        | 990.93       |
| MW-3                                      | 993.61           | 3.18        | 990.43       |
| Flow Direction: N. 67 E.; Gradient: 0.011 |                  |             |              |
| <b>March 11, 2004</b>                     |                  |             |              |
| MW-1                                      | 992.00           | 1.34        | 990.66       |
| MW-2                                      | 993.58           | 1.67        | 991.91       |
| MW-3                                      | 993.61           | 2.28        | 991.33       |
| Groundwater: N. 66 E.; Gradient: 0.012    |                  |             |              |
| <b>June 23, 2004</b>                      |                  |             |              |
| MW-1                                      | 992.00           | 3.84        | 988.16       |
| MW-2                                      | 993.58           | 3.63        | 989.95       |
| MW-3                                      | 993.61           | 4.70        | 988.91       |
| MW-4                                      | Not Surveyed     | 1.62        | -----        |
| MW-5                                      | Not Surveyed     | 2.68        | -----        |
| Groundwater: N. 52 E.; Gradient: 0.0174   |                  |             |              |
| <b>September 22, 2004*</b>                |                  |             |              |
| MW-1                                      | 951.52           | 2.85        | 948.67       |
| MW-2                                      | 953.18           | 3.58        | 949.60       |
| MW-3                                      | 953.18           | 3.98        | 949.20       |
| MW-4                                      | 949.66           | 1.62        | 948.04       |
| MW-5                                      | 950.76           | 2.52        | 948.24       |
| Groundwater: S. 86 E.; Gradient: 0.0081   |                  |             |              |



**Table 1**  
**(Continued)**

| Well Number               | Casing Elevation | Depth to GW | GW Elevation |
|---------------------------|------------------|-------------|--------------|
| <b>December 21, 2004*</b> |                  |             |              |
| MW-1                      | 951.52           | 2.43        | 949.09       |
| MW-2                      | 953.18           | 2.93        | 950.25       |
| MW-3                      | 953.18           | 3.57        | 949.61       |
| MW-4                      | 949.66           | 1.56        | 948.10       |
| MW-5                      | 950.76           | 1.95        | 948.81       |

Groundwater: S. 85 E.; Gradient: 0.0093

Elevations in feet

\*Based on new survey (October 3, 2004)

Groundwater Quality

Certified analytical reports and chain-of-custody documentation are presented in Appendix B. Laboratory analytical results are summarized in Table 2 below:

**Table 2**  
**Laboratory Analytical Results for Groundwater**  
**Chalk Mountain Liquor, Atascadero, California**

| Well                      | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | TBA |
|---------------------------|------|---------|---------|--------------|---------|------|-----|
| <b>December 18, 2003</b>  |      |         |         |              |         |      |     |
| MW-1                      | ND   | ND      | ND      | ND           | ND      | 1.8  | 330 |
| MW-2                      | ND   | ND      | ND      | ND           | ND      | 1.0  | ND  |
| MW-3                      | 83   | ND      | ND      | ND           | ND      | ND   | ND  |
| <b>March 11, 2004</b>     |      |         |         |              |         |      |     |
| MW-1                      | ND   | 16      | ND      | ND           | ND      | 15   | 390 |
| MW-2                      | ND   | ND      | ND      | ND           | ND      | 0.78 | ND  |
| MW-3                      | ND   | ND      | ND      | ND           | ND      | ND   | ND  |
| <b>June 23, 2004</b>      |      |         |         |              |         |      |     |
| MW-1                      | ND   | ND      | ND      | ND           | ND      | 6.3  | 70  |
| MW-2                      | ND   | ND      | ND      | ND           | ND      | 0.55 | ND  |
| MW-3                      | ND   | ND      | ND      | ND           | ND      | ND   | ND  |
| MW-4                      | ND   | ND      | ND      | ND           | ND      | ND   | ND  |
| MW-5                      | ND   | ND      | ND      | ND           | ND      | ND   | ND  |
| <b>September 22, 2004</b> |      |         |         |              |         |      |     |
| MW-1                      | ND   | ND      | ND      | ND           | ND      | 50   | ND  |
| MW-2                      | ND   | ND      | ND      | ND           | ND      | 6.4  | ND  |
| MW-3                      | ND   | ND      | ND      | ND           | ND      | 2.4  | ND  |
| MW-4                      | ND   | ND      | ND      | ND           | ND      | ND   | ND  |
| MW-5                      | ND   | ND      | ND      | ND           | ND      | ND   | ND  |

As per the request of Mr. Corey Walsh of the Regional Water Quality Control Board (RWQCB), the format of Table 2 has changed to that seen below. Table 2 will be presented in this format in all future groundwater monitoring reports.



**Table 2  
(Continued)**

| Well<br>(0.50)*          | TPHg<br>(50)* | Benzene<br>(0.50)* | Toluene<br>(0.50)* | Ethylbenzene<br>(0.50)* | Xylenes<br>(0.50)* | TBA<br>(20)* | MTBE<br>(0.50)* | 1,2-DCA<br>(0.50)* |
|--------------------------|---------------|--------------------|--------------------|-------------------------|--------------------|--------------|-----------------|--------------------|
| <b>December 21, 2004</b> |               |                    |                    |                         |                    |              |                 |                    |
| MW-1                     | ND            | ND                 | ND                 | ND                      | ND                 | ND           | 19              | ND                 |
| MW-2                     | ND            | ND                 | ND                 | ND                      | ND                 | ND           | 6.5             | ND                 |
| MW-3                     | ND            | ND                 | ND                 | ND                      | ND                 | ND           | 4.7             | ND                 |
| MW-4                     | ND            | ND                 | ND                 | ND                      | ND                 | ND           | ND              | ND                 |
| MW-5                     | ND            | ND                 | ND                 | ND                      | ND                 | ND           | ND              | 39                 |

All results presented in parts per billion (ppb)

\* = reporting limit in ppb

ND = below detectable concentrations

MTBE, TBA, and 1,2-DCA results by EPA method 8260

The fuel additive MTBE was detected in MW-1, MW-2, and MW-3 at 19 ppb, 6.5 ppb, and 4.7 ppb, respectively. The degradation product TBA was not detected during this sampling event. For the third consecutive quarter 1,2-DCA was detected in groundwater in the off-site, cross-gradient monitoring well MW-5. The lead scavenger 1,2-DCA was detected in MW-5 at 39 ppb during the December, 2004 sampling event compared to 34 ppb the previous quarter.

## CONCLUSIONS AND RECOMMENDATIONS

The fuel additive MTBE continues to be detected in the three onsite groundwater monitoring wells (MW-1 through MW-3) in relatively low concentrations. As discussed in the October 20, 2004 "Results of the September, 2004 Quarterly Groundwater Monitoring and File Review" report prepared by HerSchy Environmental, the 1,2-DCA detected in MW-5 does not originate from leaking USTs owned by Jaco Oil Company (Jaco). Therefore, the mitigation of this fuel additive is not the responsibility of Jaco.

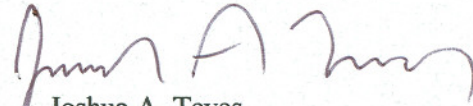
The down gradient well MW-4 has been sampled and analyzed for three consecutive quarters and none of the analytes have been detected in this well. It appears that the dissolved-phase contaminant plume is relatively stable and has not migrated laterally a significant distance. A well survey was performed within a one-mile radius in January, 2003. The results of the well survey are presented in the January 27, 2003 "Results of December Quarterly Groundwater Monitoring and Revised Well Survey" report prepared by HerSchy Environmental. Results of the well survey indicate that only one water well exists down gradient of the subject site within a half-mile radius. The well is used for irrigation and is located at Heilmann Park (Figure 3). Based on the Department of Water Resources' (DWR) well completion log, this well is screened from 140 to 363 feet below ground surface (bgs). A copy of this well log is included in Appendix C. An aerial photo with the site and the approximate location of the nearest down gradient water supply well is presented in Figure 3. According to the aerial photo, this well is approximately 1800 feet away from the subject site.

Because only relatively low concentrations of the fuel additive MTBE are present in onsite groundwater monitoring wells, and MTBE has yet to be detected in MW-4, it is reasonable to assume that the contaminant plume is fairly stable. The only confirmed down gradient water supply well within a half mile of the release is used solely for irrigation and is screened at a depth no less than 140 feet bgs. Based on these circumstances, it appears that contamination beneath the site does not pose a human or environmental health risk. Therefore, it is the recommendation of HerSchy Environmental, Inc. that the subject site be closed and that no further investigation be conducted.

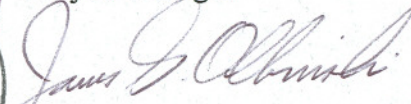


The next quarterly groundwater monitoring event is currently scheduled for March, 2005. This monitoring event will only take place if requested by your office. If you have any questions or require additional information, please contact me at the letterhead address or at (559) 641-7320.

With best regards,  
HerSchy Environmental, Inc.



Joshua A. Teves  
Project Geologist

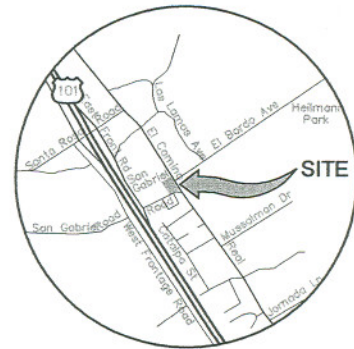


James S. Olbinski  
Registered Geologist #4274

pc: Mr. Aaron LeBarre, San Luis Obispo County Public Health Agency  
Mr. Roy Saunders, Jaco Oil Company

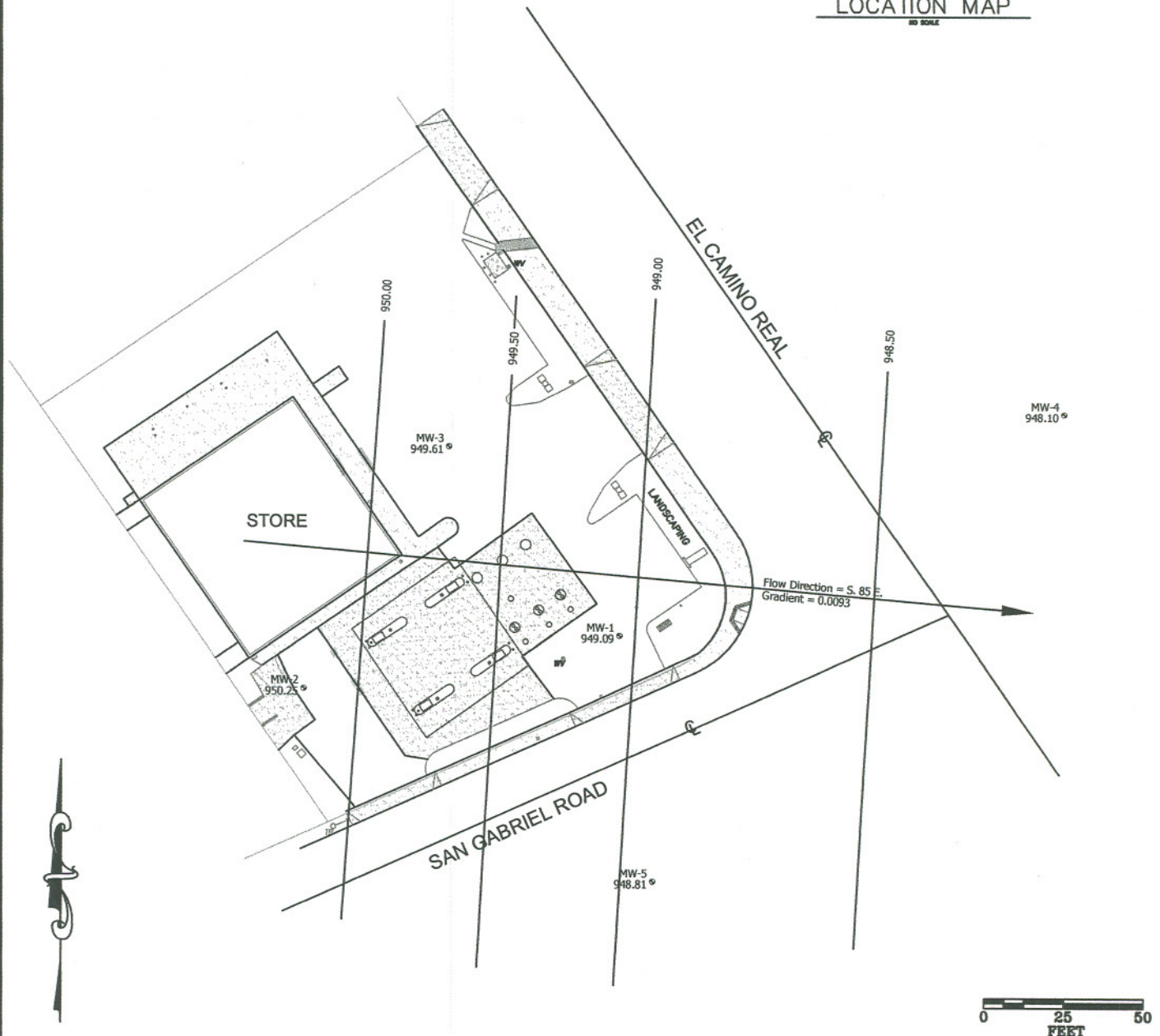






LOCATION MAP

NO SCALE



**HerSchy Environmental, Inc.**  
Environmental Consulting and Remediation

P. O. Box 229  
Bass Lake, California 93604-0229  
Tel. (559) 641-7320, Fax (559) 641-7340

DEC., 2004 GROUNDWATER CONDITIONS

CHALK MOUNTAIN LIQUOR

9990 El Camino Real, Atascadero, California

DATE:  
January, 2005  
FILE NO.:  
A08-21  
DRAWN BY:  
JSO

FIGURE

2





***HerSchy Environmental, Inc.***  
Environmental Consulting and Remediation

P. O. Box 229  
Bass Lake, California 93604-0229  
Tel. (559) 641-7320, Fax (559) 641-7340

**WELL SURVEY MAP**  
**CHALK MOUNTAIN LIQUOR**

9990 El Camino Real, Atascadero, California

DATE:  
January 2005  
FILE NO.:  
A08-21  
DRAWN BY:  
JAT

FIGURE  
**3**



**APPENDIX A**  
**GROUNDWATER FIELD SAMPLING DATA SHEETS**



HerSchy **WATER SAMPLE FIELD DATA SHEET**  
Environmental

Client Name: Chalk Mt. Lignor Location: Atascadero

Purged By: Gurule Sampled by: Gurule

Sample ID: MW-1 Type: Groundwater ☒ Surface Water ☐ Other ☐

Casing Diameter (inches): 2 ☒ 3 ☐ 4 ☐ 5 ☐ 6 ☐ Other ☐

Casing Elevation (feet/MSL): \_\_\_\_\_ Volume in Casing (gal.): 2.43

Depth of Well (feet): 17.27 Calculate Purge Volume (gal.): 7.30

Depth to Water (feet): 2.43 Actual Purge Volume (gal.): 7.5

Date Purged: 12/21/04 Date Sampled: 12/21/04 1350

| TIME        | VOLUME   | pH          | E. C.       | TEMP.       | TURBIDITY    |
|-------------|----------|-------------|-------------|-------------|--------------|
| <u>1317</u> | <u>—</u> | <u>6.93</u> | <u>1120</u> | <u>67.6</u> | <u>Clear</u> |

|             |          |             |             |             |              |
|-------------|----------|-------------|-------------|-------------|--------------|
| <u>1337</u> | <u>—</u> | <u>7.31</u> | <u>1192</u> | <u>69.0</u> | <u>Clear</u> |
|-------------|----------|-------------|-------------|-------------|--------------|

|             |            |             |             |             |              |
|-------------|------------|-------------|-------------|-------------|--------------|
| <u>1345</u> | <u>7.5</u> | <u>7.14</u> | <u>1211</u> | <u>70.3</u> | <u>Milky</u> |
|-------------|------------|-------------|-------------|-------------|--------------|

Other Observations: \_\_\_\_\_ Odor: None

Purging Equipment: Waterco

Sampling Equipment: 11

Remarks: \_\_\_\_\_

Sampler's Signature: Jeff Bunch



HerSchy Environmental WATER SAMPLE FIELD DATA SHEET

Client Name: Chalk Mt. Liquor Location: Atascadero

Purged By: Gurne Sampled by: Gurne

Sample ID: MW-2 Type: Groundwater ☒ Surface Water ☐ Other ☐

Casing Diameter (inches): 2 ☒ 3 ☐ 4 ☐ 5 ☐ 6 ☐ Other ☐

Casing Elevation (feet/MSL): \_\_\_\_\_ Volume in Casing (gal.): 2.36

Depth of Well (feet): 17.34 Calculate Purge Volume (gal.): 7.09

Depth to Water (feet): 2.93 Actual Purge Volume (gal.): 8.0

Date Purged: 12/21/04 Date Sampled: 12/21/04 1330

| TIME        | VOLUME     | pH          | E. C.       | TEMP.       | TURBIDITY     |
|-------------|------------|-------------|-------------|-------------|---------------|
| <u>1317</u> | <u>-</u>   | <u>6.93</u> | <u>1120</u> | <u>67.6</u> | <u>Clear</u>  |
| <u>1326</u> | <u>8.0</u> | <u>6.87</u> | <u>1113</u> | <u>68.6</u> | <u>Cloudy</u> |
|             |            |             |             |             |               |
|             |            |             |             |             |               |

Other Observations: \_\_\_\_\_ Odor: None

Purging Equipment: Water

Sampling Equipment: "

Remarks: \_\_\_\_\_

Sampler's Signature: Jeff Gurne



HerSchy **WATER SAMPLE FIELD DATA SHEET**  
Environmental

Client Name: Chalk Mt. Lignar Location: Atascadero

Purged By: Gurule Sampled by: Gurule

Sample ID: MW-3 Type: Groundwater ☒ Surface Water ☐ Other ☐

Casing Diameter (inches): 2 ☒ 3 ☐ 4 ☐ 5 ☐ 6 ☐ Other ☐

Casing Elevation (feet/MSL): \_\_\_\_\_ Volume in Casing (gal.): 2.28

Depth of Well (feet): 17.46 Calculate Purge Volume (gal.): 6.83

Depth to Water (feet): 3.57 Actual Purge Volume (gal.): 7.0

Date Purged: 12/21/04 Date Sampled: 12/21/04 1310

| TIME        | VOLUME     | pH          | E. C.       | TEMP.       | TURBIDITY     |
|-------------|------------|-------------|-------------|-------------|---------------|
| <u>1259</u> | <u>—</u>   | <u>6.88</u> | <u>1231</u> | <u>66.1</u> | <u>Murky</u>  |
| <u>1306</u> | <u>7.0</u> | <u>6.86</u> | <u>1228</u> | <u>69.7</u> | <u>Cloudy</u> |
| _____       | _____      | _____       | _____       | _____       | _____         |
| _____       | _____      | _____       | _____       | _____       | _____         |

Other Observations: \_\_\_\_\_ Odor: None

Purging Equipment: Water

Sampling Equipment: N

Remarks: \_\_\_\_\_

Sampler's Signature: Jeff Smith



HerSchy **WATER SAMPLE FIELD DATA SHEET**  
Environmental

Client Name: Chalk Mt. Lignor Location: Atascadero

Purged By: Gurule Sampled by: Gurule

Sample ID: MW-4 Type: Groundwater ☒ Surface Water ☐ Other ☐

Casing Diameter (inches): 2 ☒ 3 ☐ 4 ☐ 5 ☐ 6 ☐ Other ☐

Casing Elevation (feet/MSL): \_\_\_\_\_ Volume in Casing (gal.): 2.56

Depth of Well (feet): 17.20 Calculate Purge Volume (gal.): 7.69

Depth to Water (feet): 1.56 Actual Purge Volume (gal.): 8.0

Date Purged: 12/21/04 Date Sampled: 12/21/04 <sup>1430</sup>  
~~1350~~

| TIME            | VOLUME         | pH              | E. C.           | TEMP.           | TURBIDITY        |
|-----------------|----------------|-----------------|-----------------|-----------------|------------------|
| <del>1317</del> | <del>—</del>   | <del>6.93</del> | <del>1120</del> | <del>67.6</del> | <del>Clear</del> |
|                 | <del>8.0</del> | <del>6.74</del> |                 |                 |                  |
| 1417            | —              | 6.74            | 1572            | 68.5            | Cloudy           |
| 1424            | 8.0            | 6.71            | 1497            | 69.2            | "                |

Other Observations: \_\_\_\_\_ Odor: None

Purging Equipment: Watterra

Sampling Equipment: "

Remarks: \_\_\_\_\_

Sampler's Signature: Jeff Gurule



HerSchy **WATER SAMPLE FIELD DATA SHEET**  
Environmental

Client Name: Chalk Mt. Lignor Location: Atascadero

Purged By: Gurule Sampled by: Gurule

Sample ID: MW-5 Type: Groundwater ☒ Surface Water ☐ Other ☐

Casing Diameter (inches): 2 ☒ 3 ☐ 4 ☐ 5 ☐ 6 ☐ Other ☐

Casing Elevation (feet/MSL): \_\_\_\_\_ Volume in Casing (gal.): 2.54

Depth of Well (feet): 17.41 Calculate Purge Volume (gal.): 7.61

Depth to Water (feet): 1.95 Actual Purge Volume (gal.): \_\_\_\_\_

Date Purged: 12/21/04 Date Sampled: 12/21/04 1400

| TIME        | VOLUME     | pH          | E. C.       | TEMP.       | TURBIDITY     |
|-------------|------------|-------------|-------------|-------------|---------------|
| <u>1353</u> | <u>—</u>   | <u>7.02</u> | <u>1301</u> | <u>67.0</u> | <u>Cloudy</u> |
| <u>1404</u> | <u>8.0</u> | <u>6.96</u> | <u>1291</u> | <u>66.7</u> | <u>Milky</u>  |
| _____       | _____      | _____       | _____       | _____       | _____         |
| _____       | _____      | _____       | _____       | _____       | _____         |

Other Observations: \_\_\_\_\_ Odor: None

Purging Equipment: Waterfall

Sampling Equipment: 11

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampler's Signature: Jeff Gurule



**APPENDIX B**  
**CERTIFIED ANALYTICAL RESULTS**  
**AND**  
**CHAIN-OF-CUSTODY DOCUMENTATION**



## CASTLE ANALYTICAL LABORATORY

Environmental Testing Services  
Certificate #2480

2333 Shuttle Drive, Atwater, CA 95301

Phone: (209) 384-2930  
Fax: (209) 384-1507HerSchy Environmental  
P.O. Box 229  
Bass Lake, CA 93604  
Attn: Joshua TevesClient Project ID: Chalk Mt. Liquor - Atascadero  
Reference Number: 7676  
Sample Description: Water  
Sample Prep/Analysis Method: EPA 5030/8015M, 8020  
Lab Numbers: 7676-1W, 2W, 3W, 4W, 5WSampled: 12-21-04  
Received: 12-22-04  
Extracted: 12-27-04  
Analyzed: 12-27-04  
Reported: 01-07-05TOTAL PETROLEUM HYDROCARBONS - GASOLINE  
WITH BTEX DISTINCTION

| ANALYTE                             | REPORTING LIMIT | SAMPLE ID<br>MW-1<br>(µg/L) | SAMPLE ID<br>MW-2<br>(µg/L) | SAMPLE ID<br>MW-3<br>(µg/L) | SAMPLE ID<br>MW-4<br>(µg/L) | SAMPLE ID<br>MW-5<br>(µg/L) |
|-------------------------------------|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|                                     | µg/L            |                             |                             |                             |                             |                             |
| MTBE                                | 0.50            | 23                          | 8.7                         | 6.0                         | ND                          | ND                          |
| BENZENE                             | 0.50            | ND                          | ND                          | ND                          | ND                          | ND                          |
| TOLUENE                             | 0.50            | ND                          | ND                          | ND                          | ND                          | ND                          |
| ETHYLBENZENE                        | 0.50            | ND                          | ND                          | ND                          | ND                          | ND                          |
| TOTAL XYLENES                       | 0.50            | ND                          | ND                          | ND                          | ND                          | ND                          |
| GASOLINE RANGE<br>HYDROCARBONS      | 50              | ND                          | ND                          | ND                          | ND                          | ND                          |
| Report Limit Multiplication Factor: |                 | 1                           | 1                           | 1                           | 1                           | 1                           |

Surrogate % Recovery:

FID: 121% / PID: 120%

FID: 104% / PID: 105%

FID: 121% / PID: 113%

FID: 146% / PID: 107%

FID: 108% / PID: 106%

Instrument ID:

VAR-GC1

VAR-GC1

VAR-GC1

VAR-GC1

VAR-GC1

Analytes reported as ND were not detected or below the Practical Quantitation Limit  
Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor

ANALYST:

Clari J. Cone

APPROVED BY:

James C. Phillips  
Laboratory Director



# CASTLE ANALYTICAL LABORATORY

Environmental Testing Services  
Certificate #2480

2333 Shuttle Drive, Atwater, CA 95301

Phone: (209) 384-2930  
Fax: (209) 384-1507

HerSchy Environmental  
P.O. Box 229  
Bass Lake, CA 93604  
Attn: Joshua Teves

Client Project ID: Chalk Mt. Liquor - Atascadero  
Reference Number: 7676  
Sample Description: Water  
Sample Prep/Analysis Method: EPA 5030/8260  
Lab Numbers: 7676-1W, 2W, 3W, 4W, 5W

Sampled: 12-21-04  
Received: 12-22-04  
Extracted: 01-02-05  
Analyzed: 01-02-05  
Reported: 01-07-05

## GASOLINE ADDITIVES BY EPA METHOD 8260 GC/MS

| ANALYTE                             | REPORTING<br>LIMIT<br>(µg/L) | SAMPLE ID<br>MW-1<br>(µg/L) | SAMPLE ID<br>MW-2<br>(µg/L) | SAMPLE ID<br>MW-3<br>(µg/L) | SAMPLE ID<br>MW-4<br>(µg/L) | SAMPLE ID<br>MW-5<br>(µg/L) |
|-------------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>FUEL OXYGENATES</b>              |                              |                             |                             |                             |                             |                             |
| Methyl tert-Butyl Ether (MTBE)      | 0.50                         | 19                          | 6.5                         | 4.7                         | ND                          | ND                          |
| Di-isopropyl Ether (DIPE)           | 0.50                         | ND                          | ND                          | ND                          | ND                          | ND                          |
| Ethyl tert-Butyl Ether (ETBE)       | 0.50                         | ND                          | ND                          | ND                          | ND                          | ND                          |
| tert-Amyl Methyl Ether (TAME)       | 0.50                         | ND                          | ND                          | ND                          | ND                          | ND                          |
| tert-Butanol (TBA)                  | 20                           | ND                          | ND                          | ND                          | ND                          | ND                          |
| <b>VOLATILE HALOCARBONS</b>         |                              |                             |                             |                             |                             |                             |
| 1,2-Dichloroethane (1,2-DCA)        | 0.50                         | ND                          | ND                          | ND                          | ND                          | 39                          |
| Ethylene Dibromide (EDB)            | 0.50                         | ND                          | ND                          | ND                          | ND                          | ND                          |
| Report Limit Multiplication Factor: |                              | 1                           | 1                           | 1                           | 1                           | 1                           |

### Surrogate Recoveries

|                       |      |      |      |      |      |
|-----------------------|------|------|------|------|------|
| 1,2-Dichloroethane-d4 | 115% | 118% | 120% | 121% | 121% |
| Toluene-d8            | 113% | 109% | 105% | 102% | 105% |

Instrument ID: HP 5972 MS

Analytes reported as ND were not detected or below the Practical Quantitation Limit


Practical Quantitation Limit = Reporting Limit x Report Limit Multiplication Factor

(µg/L) = micrograms per liter or parts per billion (ppb)

APPROVED BY:

  
Clari J. Cone  
Laboratory Manager

APPROVED BY:

  
James C. Phillips  
Laboratory Director

## CHAIN OF CUSTODY

Certificate No. 2480

PAGE 1 OF 1

Customer: Chalk Mt. Lumber

Address:

City/State/ZIP: Atascadero

Phone / FAX:

Proj # / P.O. #:

Report Attention: John Taylor

Sampler Signature: \_\_\_\_\_

Printed:

[illegible]



**APPENDIX C**  
**DEPARTMENT OF WATER RESOURCES**  
**WELL LOG**

of \_\_\_\_\_  
Owner's Well No. \_\_\_\_\_  
Date Work Began 3/28/94, Ended 3/30/94  
Local Permit Agency San Luis Obispo  
Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_

Refer to INSTRUCTIONS & APPENDICES

No. **580682**

|               |  |           |  |
|---------------|--|-----------|--|
| LATITUDE      |  | LONGITUDE |  |
|               |  |           |  |
| APN/TRS/OTHER |  |           |  |

**GEOLOGIC LOG**

ORIENTATION (✓) ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE \_\_\_\_\_ (SPECIFY)

DEPTH TO FIRST WATER \_\_\_\_\_ (Ft.) BELOW SURFACE

| DEPTH FROM SURFACE |        | DESCRIPTION<br><i>Describe material, grain size, color, etc.</i> |
|--------------------|--------|--|
| Ft.                | to Ft. |  |
| 0                  | 3      | Top Soil   |
| 3                  | 14     | Sandy Brown Clay   |
| 14                 | 30     | White Sandy Clay   |
| 30                 | 110    | White Sandstone  |
| 110                | 140    | Green Shale  |
| 140                | 337    | White Sandstone  |
| 337                | 340    | Green Shale  |
| 340                | 355    | White Sandstone  |
| 355                | 360    | Green Shale  |
|                    |        | GM   |

Air lift test is only approximate and may be inaccurate. A pump test by this contractor or another licensed drilling and pump contractor is recommended for an accurate account.

**WELL OWNER**

Name Heilmann Park  
Mailing Address Dept Of General Services  
Central Services Division County Gov.  
San Luis Obispo CA 93408

Address \_\_\_\_\_  
City Atascadero  
County San Luis Obispo  
APN Book 034 Page 391 Parcel 004  
Township 28S Range 12E Section 25  
Latitude \_\_\_\_\_ NORTH Longitude \_\_\_\_\_ WEST

**LOCATION SKETCH** **ACTIVITY (✓)**

WEST EAST

EL BORDO AVE

Heilmann Park

SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

☒ NEW WELL  
☐ MODIFICATION/REPAIR  
    \_\_\_ Deepen  
    \_\_\_ Other (Specify) \_\_\_\_\_  
☐ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")  
☐ PLANNED USE(S) (✓)  
    \_\_\_ MONITORING  
WATER SUPPLY  
    \_\_\_ Domestic  
    ☒ Public  
    ☒ Irrigation  
    \_\_\_ Industrial  
    \_\_\_ "TEST WELL"  
    \_\_\_ CATHODIC PROTECTION  
    \_\_\_ OTHER (Specify) \_\_\_\_\_

DRILLING METHOD Air Rotary FLUID Bentonite

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 130 (Ft.) & DATE MEASURED \_\_\_\_\_

ESTIMATED YIELD 50 (GPM) & TEST TYPE \_\_\_\_\_

TEST LENGTH 3 (hrs.) TOTAL DRAWDOWN \_\_\_\_\_ (Ft.)

\* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 400 (Feet)

TOTAL DEPTH OF COMPLETED WELL 360 (Feet)

ATTACHMENTS (✓)

Geologic Log  
Well Construction Diagram  
Geophysical Log(s)  
Soil/Water Chemical Analysis  
Other \_\_\_\_\_

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

**CERTIFICATION STATEMENT**

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Filipponi & Thompson Drilling

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS P.O. Box 845 Atascadero, CA 93423

CITY STATE ZIP

Signed [Signature] DATE SIGNED 3/31/94

WELL DRILLER/AUTHORIZED REPRESENTATIVE C-57 LICENSE NUMBER 432680

DWR 188 REV. 7-89

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM